PATENT COOPERATION TREATY

From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:
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PCT

NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Rule 71.1)

Date of mailing (day/month/year)

16 FEB 2006

Applicant's or agent's file reference

GENOM.032VPC

IMPORTANT NOTIFICATION

International application No.

International filing date (day/month/year)

Priority date (day/month/year)

PCT/US04/27412

23 August 2004 (23.08.2004)

25 August 2003 (25.08.2003)

Applicant

GENEOHM SCIENCES, INC.

- The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the
 international preliminary report on patentability and its annexes, if any, established on the international
 application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices)(Article 39(1))(see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed invention is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and mailing address of the IPEA/ US

Mail Stop PCT, Attn: IPEA/US

Commissioner for Patents P.O. Box 1450

P.O. Box 1450 Alexandria, Virginia 22313- 1450 Facsimile No. (571) 273-3201 Authorized officer

James Martinell A. Roberts for

Telephone No. (571) 272-0719

Form PCT/IPEA/416 (January 2004)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference GENOM.032VPC		FOR FURTHER AC	TION	See Form PCT/IPEA/416
International application No.		International filing date (day/month/year)	Priority date (day/month/year)
PCT/US04/27412		23 August 2004 (23.08.2	004)	25 August 2003 (25.08.2003)
International Patent Classifica	ion (IPC)	or national classification ar	nd IPC	
IPC(8): C12Q 1/68; C12P 19/	34 and US	Cl.: 435/6, 91.1, 91.2		
Applicant				
GENEOHM SCIENCES, INC				
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 				
2. This REPORT of	2. This REPORT consists of a total of sheets, including this cover sheet.			
3. This report is als	o accomp	panied by ANNEXES, co	omprising:	
a. (sent to the	ne applica	nt and to the Internation	al Bureau) a total of	sheets, as follows:
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).				
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.				
b. (sent to				and number of electronic carrier(s))
, containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).				
4. This report contains indications relating to the following items:				
Box No.		asis of the report	-	
Box No.	II Pr	rionity		
Box No.		on-establishment of opin	ion with regard to no	velty, inventive step and industrial
Box No.	IV L	ack of unity of invention		
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
Box No.	VI C	ertain documents cited		
Box No.	VII C	ertain defects in the inter	national application	
Box No.	VIII C	ertain observations on the	e international applica	ation
Date of submission of the demand		Date of completion	of this report	
25 October 2005 (25.10.2005)		01 February 2006 (01	.02.2006)	
Name and mailing address of the IPEA/US		Authorized officer		
Mail Stop PCT, Atto: IPEA/US Commissioner for Patents		James Martinell	F. Roberts for	
P.O. Box 1450 Alexandria, Virginia 22313-1450				
Facsimile No. (571) 273-3201		Telephone No. (571)	272-0719	

Form PCT/IPEA/409 (cover sheet)(April 2005)

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INTERNATIONAL	PRELIMITARI	KEPUKI UN	PAIGNIADILII

International application No.	
PCT/US04/27412	

Box No. I Basis of the report
1. With regard to the language, this report is based on:
the international application in the language in which it was filed.
a translation of the international application into, which is the language of a translation furnished
for the purposes of:
international search (under Rules 12.3 and 23.1(b))
publication of the international application (under Rule 12.4(a))
international preliminary examination (under Rules 55.2(a) and/or 55.3(a))
2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):
the international application as originally filed/furnished
the description:
pages 1-143 as originally filed/furnished pages* NONE received by this Authority on
pages* NONE received by this Authority on
the claims:
pages 144-180 as originally filed/furnished
pages* NONE as amended (together with any statement) under Article 19
pages* NONE received by this Authority on
pages* NONE received by this Authority on
the drawings:
pages 1-17 as originally filed/furnished
pages* NONE received by this Authority on received by this Authority on
a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3. The amendments have resulted in the cancellation of:
the description, pages
the claims, Nos
the drawings, sheets/figs
the sequence listing (specify):
any table(s) related to the sequence listing (specify):
4. This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
the description, pages
the claims, Nos
the drawings, sheets/figs
the sequence listing (specify):
any table(s) related to the sequence listing (specify):
* If item 4 applies, some or all of those sheets may be marked "superseded."

Form PCT/IPEA/409 (Box No. I) (April 2005)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.	
PCT/US04/27412	

Box No. IV	Lack of unity of invention
1. In re	sponse to the invitation to restrict or pay additional fees the applicant has, within the applicable time limit:
	restricted the claims.
	paid additional fees.
	paid additional fees under protest, and, where applicable, the protest fee
	paid additional fees under protest but the applicable protest fee was not paid
\boxtimes	neither restricted the claims nor paid additional fees
	Authority found that the requirement of unity of invention is not complied with and chose, according to 68.1, not to invite the applicant to restrict or pay additional fees.
3. This Auth	ority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is:
com	blied with.
on to	complied with for the following reasons:
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4. Conseque	ntly, this report has been established in respect of the following parts of the international application:
all	parts
⊠ dhe	parts relating to claims Nos. 1-48 and 64-152

Form PCT/IPEA/409 (Box No. IV) (April 2005)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US04/27412

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement Novelty (N) Claims Please See Continuation Sheet YES Claims Please See Continuation Sheet NO Inventive Step (IS) Claims Please See Continuation Sheet YES Claims Please See Continuation Sheet NO Industrial Applicability (IA) Claims Please See Continuation Sheet YES Claims Please See Continuation Sheet YES NO

2. Citations and Explanations (Rule 70.7)

Claims 1-9, 12, 13, 15, 16, 18, 19, 22-24, 26, 29-37, 39-42, 64-73, 76-83, 95-102, 105-112, 114-119, 122-126, 129-134, 137-141, and 144-150 lack novelty under PCT Article 33(2) as being anticipated by Molecular Staging, Inc. (WO 02/077256). The reference teaches a nucleic acid molecular hybridization method that uses probes that contain two regions that bind to the target. Probes that bind to the target are circularized and amplified via rolling circle amplification. The probes of the reference also contain tags and may contain a promoter for the detection of RNA transcribed from the probe. For example, see Figure 1, the Abstract, page 4, line 32 through page 22, line 10, and claims 1-162. The claims describe no more than the reference. Applicant's argument filed 25 October 2005 (page 2, last full paragraph and page 3, first full paragraph) is not convincing. Applicant asserts that Molecular Staging, Inc. (WO 02/077256) does not teach the se of a sequestering agent. This argument is not convincing in view of the teachings in the reference at, for example, page 11, lines 1-25 and page 13, lines 7-29. The reference uses a sequestering sequence to prevent rolling circle amplification in the absence of target sequences.

Claims 10, 11, 14, 17, 20, 21, 25, 27, 28, 38, 43-48, 74, 75, 84-94, 103, 104, 113, 120, 121, 127, 128, 135, 136, 142, 143, 151, and 152 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the claimed methods.

Claims 1-48 and 64-152 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

Form PCT/IPEA/409 (Box No. V) (April 2005)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US04/27412

S	upplemental Box
	In case the space in any of the preceding boxes is not sufficient.
	Continuation of:
	V. 1. Reasoned Statements: The opinion as to Novelty was positive (Yes)with respect to claims 10, 11, 14, 17, 20, 21, 25, 27, 28, 38, 43-48, 74, 75, 84-94, 103, 104, 113, 120, 121, 127, 128, 135, 136, 142, 143, 151, and 152 The opinion as to Novelty was negative (No) with respect to claims 1-9, 12, 13, 15, 16, 18, 19, 22-24, 26, 29-37, 39-42, 64-73, 76-83, 95-102, 105-112, 114-119, 122-126, 129-134, 137-141, and 144-150 The opinion as to Inventive Step was positive (Yes)with respect to claims 10, 11, 14, 17, 20, 21, 25, 27, 28, 38, 43-48, 74, 75, 84-94, 103-104, 113, 120, 121, 127, 128, 135, 136, 142, 143, 151, and 152 The opinion as to Inventive Step was negative(NO) with respect to claims 1-9, 12, 13, 15, 16, 18, 19, 22-24, 26, 29-37, 39-42, 64-73, 76-83, 95-102, 105-112, 114-119, 122-126, 129-134, 137-141, and 144-150 The opinion as to Industrial Applicability was positive (YES) with respect to claims 1-48 and 64-152 The opinion as to Industrial Applicability was negative(NO) with respect to claims NONE
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